



In re application of

Confirmation No. 9171

Syunsuke SATOH et al.

Attorney Docket No. 2005 0341A

Serial No. 10/527,746

Group Art Unit 2834

Filed March 14, 2005

Examiner Thomas M. Dougherty

TUNING FORK RESONATOR, TUNING

Mail Stop: PCT

FORK UNIT, AND METHOD FOR

PRODUCING TUNING FORK RESONATOR

SUBMISSION OF ENGLISH VERSIONS OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY AND WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith for consideration by the Examiner are:

- 1) An English version of the International Preliminary Report on Patentability; and
- 2) An English version of the Written Opinion of the International Searching

Authority.

Respectfully submitted,

Syunsuke SATOH et al.

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

KURAUCHI, Giro Sumitomoseimei Midosuji Bldg. 14-3, Nishitemma 4-chome Kita-ku Osaka-shi, Osaka 5300047

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		JAPON			
Date of mailing (day/month/year) 26 May 2006 (26.05.2006)					
Applicant's or agent's file reference PCT124		IMPORTANT NOTIFICATION			
International application No. PCT/JP2004/010598		International filing date (day/month/year) 20 July 2004 (20.07.2004)			
Applican	Applicant DAISHINKU CORPORATION et al				
l. Trai	1. Transmittal of the translation to the applicant.				
•	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).				
	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).				
2. Trai	2. Transmittal of the copy of the translation to the designated or elected Offices.				
	The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:				
	None				
	The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:				
	EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU	BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, , ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, IZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, YU, ZA, ZM, ZW			
3. Rem	ninder regarding translation into (one of) the official langua	ge(s) of the elected Office(s).			
The must	The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter Π).				
	It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.				
		I Authorized officer			
	The International Rureau of WIDO	Authorized officer			

Facsimile No.+41 22 740 14 35 Form PCT/IB/338 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT124	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2004/010598	International filing date (day/month/year) 20 July 2004 (20.07.2004)	Priority date (day/month/year) 22 July 2003 (22.07.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant DAISHINKU CORPORATION	·				

l., -	This international preliminary re International Searching Authorit		apter I) is issued-by the International-Bureau on behalf of the · · · · · · · · · · · · · · · · · ·	
2.	This REPORT consists of a total	of 4 sheets, including thi	s cover sheet.	
	In the attached sheets, any refere to the international preliminary r		n of the International Searching Authority should be read as a reference napter I) instead.	
3.	This report contains indications relating to the following items:			
	Box No. I	Basis of the report	·	
	Box No. II	Priority	Y-	
	Box No. III	Non-establishment of capplicability	opinion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of inven-	tion	
	Box No. V		nder Article 35(2) with regard to novelty, inventive step or industrial and explanations supporting such statement	
l.	Box No. VI	Certain documents cite	ed	
	Box No. VII	Certain defects in the i	nternational application	
	Box No. VIII	Certain observations o	n the international application	
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 15 May 2006 (15.05.2006)	
The International Bureau of WIPO			Authorized officer	
34, chemin des Colombettes 1211 Geneva 20, Switzerland			Masashi Honda	
Facsimile No. +41 22 740 14 35			Telephone No. +41 22 338 70 10	
Form F	CT/IB/373 (January 2004)			

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION PCT124 See paragraph 2 below International filing date (day/month/year) International application No. Priority date (day/month/year) PCT/JP2004/010598 20.07.2004 22.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant DAISHINKU CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Telephone No. Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/010598

Box	No. I	Basis of this opinion
1.		egard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	- 1	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ion, this opinion has been established on the basis of:
	a. t	ype of material
		a sequence listing
		table(s) related to the sequence listing
	b. f	ormat of material
	[in written format
		in computer readable form
	c. t	ime of filing/furnishing
		contained in the international application as filed.
	E	filed together with the international application in computer readable form.
	Ε	furnished subsequently to this Authority for the purposes of search.
3.	f	in addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or turnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	onal comments:
		·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/010598

Box			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability pporting such statement	;
l.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		мо
	Inventive step (IS)	Claims	3-5, 8	YES
		Claims	1, 2, 6, 7	NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		_ NO
			•	

2. Citations and explanations:

Document 1: JP 2003-204240 A (Y.K. Piedekku Gijutsu Kenkyusho) 18 July 2003, Figs. 1-4 & US 2003/0080652 A1

Document 2: JP 52-52597 A (Citizen Watch Co., Ltd.) 27 April 1977, Figs. 5-8 (Family: none)

Document 3: JP 62-4888 B2 (Citizen Watch Co., Ltd.) 02 February 1987, Figs. 5-10 & US 4252839 A1 & GB 1594980 A

The inventions relating to clams 1 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR, and document 2 cited in the ISR. Using an electrode corresponding to a groove extending electrode described in document 2 for a turning folk type flexible crystal vibrator in which an electrode corresponding to a beside-groove electrode of document 1 is formed would be easy for a party skilled in the art.

The invention relating to claim 2 does not appear to involve an inventive step based on documents 1 and 2. Using an electrode corresponding to a groove extending electrode described in document 2 for a turning folk type flexible crystal vibrator in which an electrode corresponding to a beside-groove electrode of document 1 is formed so that the beside-groove electrode is formed integral with the groove extending electrode would be easy for a party skilled in the art.

The inventions relating to claims 3-5 and 8 are not described in any of the documents cited in the ISR; nor would they be obvious to a party skilled in the art.

The invention relating to claim 7 does not appear to involve an inventive step based on documents 1 and 2. Using an electrode corresponding to a groove extending electrode described in document 2 for a crystal unit comprising a turning folk type flexible crystal vibrator in which an electrode corresponding to a beside-groove electrode of document 1 is formed wherein the turning folk type flexible crystal vibrator is attached in a case would be easy for a party skilled in the art.